

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: METALUX

Report Number: P291993

Luminaire Tested: **22GR-LD5-32-F125-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291993
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33295)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-32-F125-UNV-L82765-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3148.0 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

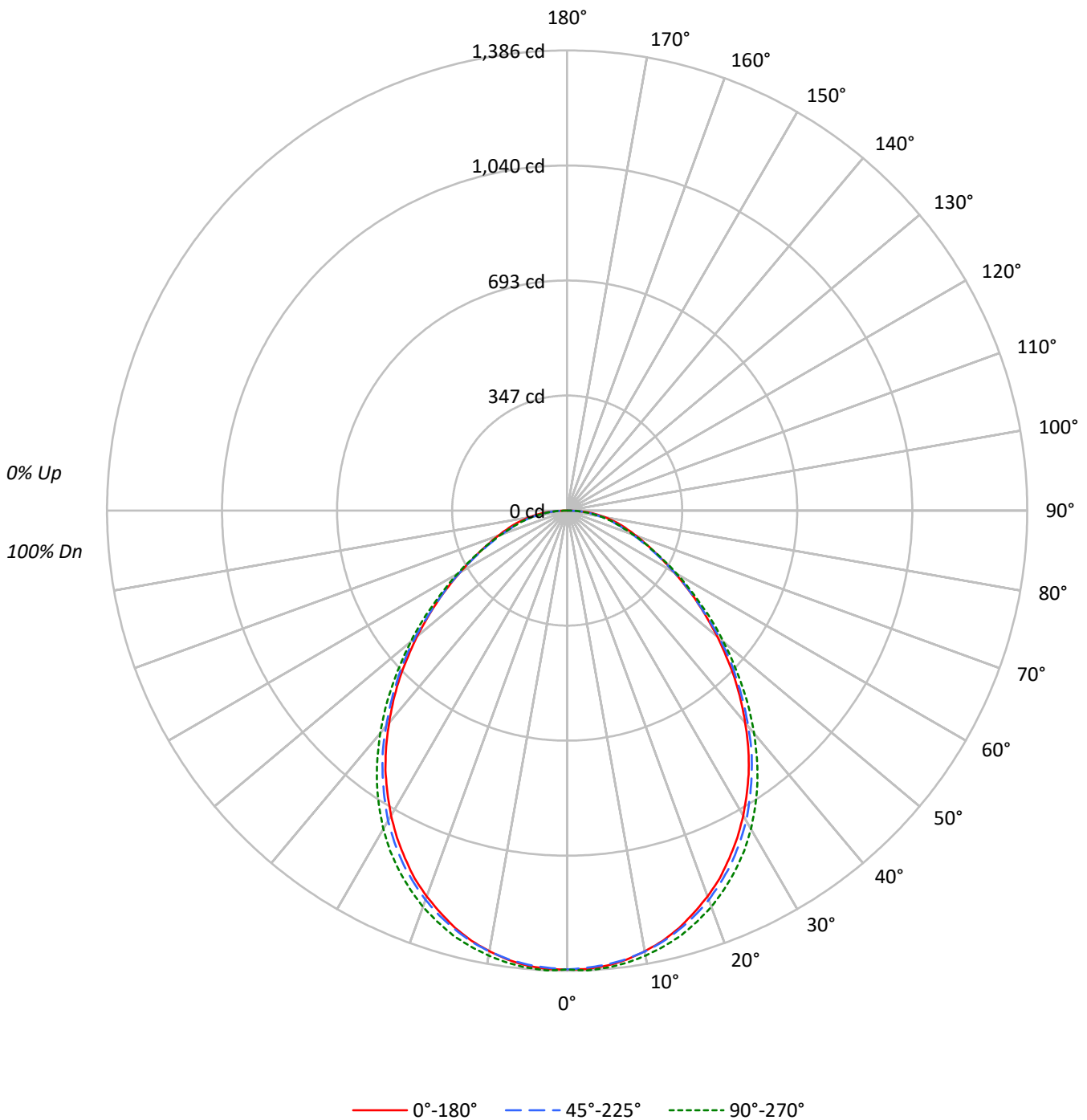
Input Watts (W): 24.645
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73					73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62					62			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54					54			
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48					48			
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42					42			
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38					38			
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31					31			
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3719	3719	3719
5°	3717	3707	3733
10°	3683	3684	3718
15°	3626	3638	3691
20°	3541	3573	3637
25°	3431	3479	3555
30°	3296	3352	3441
35°	3134	3184	3282
40°	2930	2979	3077
45°	2713	2755	2835
50°	2471	2511	2575
55°	2231	2238	2303
60°	2001	2009	2056
65°	1823	1786	1828
70°	1736	1638	1666
75°	1747	1579	1588
80°	1812	1596	1585
85°	1985	1692	1602



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.6	4.1
10°-20°	368.8	11.7
20°-30°	539.8	17.1
30°-40°	606.9	19.3
40°-50°	559.7	17.8
50°-60°	431.4	13.7
60°-70°	284.7	9.0
70°-80°	165.7	5.3
80°-90°	60.4	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1039.2	33.0
0°-40°	1646.2	52.3
0°-60°	2637.3	83.8
0°-90°	3148.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3148.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1382	1382	1382	1382	1382	
5°	1376	1373	1372	1379	1382	130
15°	1302	1302	1306	1318	1325	366
25°	1156	1161	1172	1188	1197	531
35°	954	958	969	989	999	595
45°	713	714	724	738	745	549
55°	476	475	477	485	491	427
65°	286	285	280	283	287	287
75°	168	161	152	149	153	177
85°	64	64	55	50	52	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1382.0	1382.0	1382.0	1382.0	1382.0
2.5°	1382.0	1379.1	1378.3	1383.4	1386.4
5°	1376.1	1373.2	1372.5	1379.1	1382.0
7.5°	1364.5	1362.3	1363.0	1370.3	1374.0
10°	1347.7	1346.9	1348.4	1356.4	1360.8
12.5°	1327.9	1327.2	1330.1	1338.9	1344.7
15°	1301.6	1301.6	1306.0	1317.7	1325.0
17.5°	1270.2	1272.4	1279.0	1290.7	1298.7
20°	1236.6	1238.8	1247.6	1260.7	1270.2
22.5°	1199.4	1202.3	1211.1	1227.1	1235.2
25°	1155.5	1161.4	1171.6	1187.7	1197.2
27.5°	1110.3	1116.8	1126.3	1146.1	1154.8
30°	1060.6	1065.0	1078.9	1097.1	1107.3
32.5°	1008.0	1012.4	1024.1	1046.0	1054.7
35°	953.9	958.3	969.3	989.0	999.2
37.5°	895.5	899.2	912.3	927.7	938.6
40°	834.2	839.3	848.0	866.3	875.8
42.5°	774.3	776.5	785.9	804.2	811.5
45°	712.9	713.6	723.9	738.5	745.0
47.5°	649.4	650.8	663.2	672.0	678.6
50°	590.2	590.9	599.7	607.7	615.0
52.5°	531.0	531.0	535.4	544.2	553.7
55°	475.5	474.8	477.0	485.0	490.9
57.5°	422.9	422.2	425.1	430.2	434.6
60°	371.8	370.3	373.3	376.2	382.0
62.5°	326.5	328.0	324.3	328.7	333.1
65°	286.3	284.9	280.5	282.7	287.1
67.5°	252.0	249.8	242.5	244.0	249.1
70°	220.6	216.2	208.2	208.2	211.8
72.5°	192.1	187.7	177.5	178.2	179.7
75°	168.0	160.7	151.9	149.0	152.7
77.5°	141.7	135.9	127.8	125.6	127.1
80°	116.9	112.5	103.0	100.1	102.3
82.5°	92.8	89.1	78.2	76.0	76.7
85°	64.3	63.5	54.8	50.4	51.9
87.5°	34.3	35.1	28.5	25.6	27.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)